

INDEX TO VOLUME XIX.

A

Aaron, Eugene Murray, on museums, 77.
 Abbott's The Evolution of Christianity, 333.
 Academy, National, of Sciences, 348; New Members of, 348.
 Accidents in Germany, 117.
 Actinism, 142.
 Adams, J. C., death of, 78.
 Agriculture, status of experimental, 270.
 Aitry, Sir G. B., 64.
 Alaska, native fairs in, 387.
 Aldrich, J. M., on the diptera, 344.
 Algol, system of, 298.
 Allen, Harrison, on teaching anatomy, 86.
 Alphabet, origin of the, 35.
 Altenburg Oriental Society, 300.
 Aluminum, production of, 384; soldering of, 74.
 Amenhotep, tomb of King, 312.
 Amulets from the East, 173.
 Anatomical nomenclature, 341.
 Anatomy teaching, 85.
 Anemographs, 326.
 Anemometer comparisons, 27.
 Annalen der Physik und Chemie, 177.
 Antarctic expedition, 3.
 Anthropology, 165; application of psychological research to, 3; notes on, 146; of Europe, 49.
 Anthropometric scheme, 302.
 Ant-nest beetles, 117.
 Archeology at University of Pennsylvania, 136.
 Architectural studies in Brooklyn, 254; scholarship for Philadelphia, 309.
 Argentine Republic, F. J. Matthew's journey in, 354.
 Armstrong and Norton's Laboratory Manual of Chemistry, 181.
 Arsenic in common life, 3; poisoning from fabrics, 364.
 Art-Motives, identity of primitive, 298.
 Artesian wells in the Sahara, 337; in Iowa, 310.
 Appalachian Mountain Club exploration, 397.
 Appleton's General Guide, 363.
 Ashmead, Albert S., on immunity from disease, 342.
 Asia Minor, pre-historic ethnology of, 386.
 Asa, origin of, 73.
 Astronomical handbook, 110; lectures, popular, 103.
 Astronomy and Astro-Physics for May, 275.
 Atlantic Monthly, 12.
 Atmosphere, circulation of the, 301.
 Auchincloss, W. S., on yearly tides, 242.
 Aurora, periodicity of the, 350.
 Australia, Koebele's second trip to, 80; exploration in, 75.
 Austenleth's Homeric Dictionary, 47.

B

Bacteria in drinking water, 128; some uses of, 258.
 Baldwin, J. Mark, on infant's movements, 15; on psychological laboratory at Toronto, 143.
 Balloon problem, 136.
 Bamboo products, 354.
 Barbour, R. H., on gigantic fossils, 99; on pocket gopher, 354.
 Barnes, C. E., on botany in high schools, 91.
 Bartholomew's Graphic Atlas, 96, 236.
 Battersby, secondary, 324.
 Baur, G., on Galapagos Islands, 38, 166; on fauna of Galapagos Islands, 176.
 Bayley, C. C., on a fire-ball, 240.
 Beal, W. J., on making an herbarium, 123.
 Beale, A. H., on magnetic cane, 123.
 Beauchamp, W. M., on Indian occupation of New York, 78.
 Becher, F. A., on business and college education, 377.
 Bent, J. Theodore, on Zimbabwe, 348.
 Bereman, T. A., on circulation of the atmosphere, 32.
 Bibliotheca Electrotechnica, 333.
 Bigelow, R. P., 5.
 Birds, extinct, in New Zealand, 163.
 Blackberry seedling, 94.
 Blair's Organic Analysis of Potable Waters, 177.
 Blood, haemoglobin in, 13.
 Blowholes, 35; detection of, 75.
 Bosa, F., on Chinook jargon, 129; on growth of children, 356; 281.
 Bolland's Iron Founder, 39.
 Bolley, H. F., on experimental agriculture, 270.
 Bologna, University of, 2.
 Bone, human hyoid, 60.
 Bonvalot's Across Tibet, 91.
 Books, forthcoming scientific, 192.
 Bostwick, Arthur E., on estimates of distance, 118.
 Botanical laboratory, 183; nomenclature and congress, 364.
 Botany in high schools, 91; section of A. A. A. S., 81.
 Bowler in Tibet, 284.
 Bradley, Milton, on color, 175.
 Brain, the avian, 16.
 Brazilian tribes, 331.
 Bread-raising, 60.
 Brinton, O. G., anthropological notes, 146, 174, 202, 250, 255, 266, 316, 342; on the Celts, 191, 235; on European origin of white race, 360; on Hongtote language, 377.

British Museum Psychological Memoirs, 179; New Guinea, Sir Wm. Macgregor's journey in, 358.
 Brockway's Essentials of Physics, 177.
 Brooklyn Institute, 33; and political science, 292.
 Brooks, W. K., on Johns Hopkins marine laboratory, 10.
 Browning Cyclopaedia, 11.
 Buckley's Moral Teachings of Science, 67.
 Buddhism in the Occident, 316.
 Bulfinch's Age of Fable, 361.
 Bullet, modern, wounds from, 341.
 Butler's The Place of Comenius in the History of Education, 361.
 Bythoscopidae, local, 318.

C

Call, R. Ellsworth, on artesian wells in Iowa, 310; on human hyoid bone, 60.
 Campbell's The Puritan in Holland, England, and America, 332.
 Canada, Royal Society of, 307, 337.
 Carlyle lectures, 25.
 Carus's History of Science, 11, 39.
 Cartwright's Literary Reader, 275.
 Cats, singular, 173.
 Cells, the question of the, 146, 174, 191, 207, 235.
 Chaffanjon, on Venezuela, 171.
 Chalcotherium, ancestry of, 276.
 Chamberlain, A. F., on Naniobosha, 19.
 Chamberlain's Cyclopaedia—IX., 293.
 Chandler, C. P., on arsenic, 8.
 Chandler, B., on rain-making, 66.
 Charencey, H. de, on a native Maya historian, 337.
 Chatelier, A., on Mahgreb, 342.
 Children, growth of, 256, 281.
 Chinook jargon, 129.
 Churchill's Men, Mines, and Animals of South Africa, 379.
 Clarke, A. M., on Algol, 298.
 Climate of British Isles, 362; of Egypt, 4.
 Climatic changes, 359.
 Coal in Argentine Republic, 103; in Straits of Magellan, 74; resources of Belgium, 145.
 Coffee-berry carbohydrates, 349.
 C. See-See, 173.
 Colbert's Humanity in its Origin, 180.
 Cold waves, 34; warnings in New York, 74.
 Collignon, R., on international anthropometric scheme, 202.
 Color question, 175, 264.
 Columbia College School of Pure Science, 61.
 Composition of human body, 100.
 Comet, a, 189; 275; Denning, 171, 229, 246; Swift, 145, 229, 246, 317; Winnecke's, 9, 78, 171, 246, 275, 317; Wolfe's, 9, 78.
 Commerce, evolution of, 216; prehistoric, between Africa and Asia, 175.
 Comstock, J. H., on wire-worms, 18.
 Comstock, T. H., on veno-formation, 214.
 Congress of archeology and zoology at Moscow, 159; botanical, 341, 346; of experimental psychology, 44; geographical, at Geneva, 313; geographical, in Spain, 239; orientalist, 353.
 Conn, H. W., on uses of bacteria, 358.
 Conway, W. M., on the dawn of art in the ancient world, 344.
 Korean paper, 337.
 Corn-plant, chemical composition of, 211; planting, 355.
 Cornell, naval architecture at, 116; the change at, 300.
 Coulter, J. M., on botanical congress and nomenclature, 340.
 Cows, feeding grain to, 190.
 Cragin, F. W., 118; on saber-toothed tiger, 17.
 Cremation, 131; in Japan, 2.
 Criminal anthropology, 255; of women, 316.
 Crosby and Bell's Electric Railway, 96.
 Crouter, A. L. E., on higher education of the deaf, 199.
 Culture, retrogressive, in prehistoric times, 174.
 Currents of the Pacific, 102.

D

Dana, J. C., on family types, 264.
 Dana, J. D., 263, 271.
 Daresote, on artificial production of monsters, 202.
 Davis, W. M., 271, on Loup Rivera, 107, 230.
 Deaf, association for teaching speech to the, 173; higher education of the, 199, 231.
 Dehl and Chamberlain's Norman Monuments in Palermo, 35.
 Deserts of North America, 158.
 Diamond, large, 73.
 Diamonds, hardness of cut, 331.
 Dietrich, Dr. F. C., death of, 2.
 Dimmock, George, on electricity in agriculture, 109.
 Diphtheria propagated by steam, 229; tox-albumin, 198.
 Diptera, systematic position of the, 344, 339.
 Diseases, cure of, 60; immunity from, 342.
 Distance, estimates of, 118, 149.
 Donnelly's Cipher in the Flays, 11.
 Dorsey, J. Owen, on Naniobosha, 19; on Siouan onomatopoeas, 4; on Dhegaha language, 356.
 Dorsey's The Dhegaha Language, 392.

Drummond, A. T., on lake temperatures, 47.
 Drummond's Natural Law in the Spiritual World, 177.
 Dust, microbes in, 102; in the air, 242.
 Dymond, T. S., on lettuce, 301.

E

Earthquakes in Japan, 187.
 Easter Island native language, 356.
 Education, relation of business to college, 297.
 Edwards, Amelia B., death of, 271.
 Edwards, C. S., 75.
 Edwards, Henry, entomological collection of, 150.
 Edwards, Henry, publications, 82.
 Ehrenreich, P., on Brazilian tribes, 231.
 Ehrenreich's Volkshunde Brasiliens, 63.
 Eise, berg's Bacteriological Diagnosta, 291.
 Electrical engineer, the education of the, 344.
 Electricity in agriculture, 25, 100.
 Element, a new, 339.
 Embryonic causes of variation, 202.
 Endlich's Blowpipe Analysis, 352.
 Enrich, H., on Technical Academy of Sciences, 258.
 Epidemics, atmospheric theory of, 141.
 Epileptic automatism, 45.
 Ektino throwing-sticks, 332.
 Eschmarch, G. von, 5.
 Ethnology, 342.
 Evaporation and condensation, 101.
 Eschmarch, Jr., on Technical Academy of Sciences, 258.
 Ewell, Edwin E., on coffee-berry carbohydrates, 349.
 Exhibition building, New York, 109; Columbian, in Spain, 229; Historical American, in Madrid, 37; religious, 101; of objects used in worship, 215, 235; South African, 354.
 Eye-habits, 53.
 Eyes, the, and facial expression, 253.

F

Falling, sensations during, 284.
 Family traits, 1, 5, 221, 319; types, 264.
 Famine in Russia, 131.
 Farrington, E. H., on corn-plant, 211.
 Farrow, J. H., on architectural scholarship, 309; on Brooklyn architectural exhibition, 254; on historical American exhibition in Madrid, 37.
 Ferrero, G., on criminal anthropology of woman, 316.
 Fertilizer, experiments at Georgia station, 102.
 Field, Geo. W., 172.
 Findlay's Working of an English Railway, 178.
 Fire-ball, 249.
 Fishes, distribution of, 187; Dr. Storer's work on, 295.
 Fluke's Discovery of America, 130; Evolution in Science, Philosophy, and Art, 69; History of the United States, 208.
 Fitner, H., on lotos eaters, 220.
 Fittner, S., on tox-albumin diphtheria, 193.
 Floridus, 3.
 Flower's The Horse, 63.
 Fog, Frank's explanation of, 61; in London, 4.
 Food exhibition, 74.
 Forbes, Henry O., on extinct birds of New Zealand, 163.
 Forbes, P. Max, on the Celts, 175.
 Fossils, gigantic, 99.
 Fothergill's The Will Power, 179.
 Foxes in Australia, 313.
 Fruit-trees, is it dangerous to spray, 275.
 Fungi on plants, 172, 243.

G

Gabelentz's Sprachwissenschaft, 96.
 Galapagos Islands, 38, 166; fauna of, 176.
 Gallaudet, E. M., on the higher education of the deaf, 231.
 Games, children's, 11.
 German, S., on distribution of fishes, 187; on Siistrasus and Crotalophorus, 200; on Dr. Storer's work on fishes, 295; on vesicles of Savi, 123.
 Gatschet, A. S., on Klamath language, 236.
 Geer, de, Gerard, 271.
 Gelkie, A., on volcanic action, 145.
 Gems, detection of artificial, 244, 276; of the Ural, 101.
 Genealogy, scientific, 157, 230.
 Geneva, soundings in lake of, 46.
 Geographical names, orthography of, 34; society in Liverpool, 32.
 Geological Survey of Alabama, 38.
 German Science Association, 338.
 Glacial man, 317; period, Professor Gelkie on, 107; period, 103; phenomena in New York, 341.
 Glaeser, E., on the alphabet, 255.
 Glass, solubility of, 32.
 Gold in meteorite, 61.
 Golden, Katherine, E., on a botanical laboratory, 183.
 Gopher, pocket, extermination of, 304.
 Gorbys geological collection, 2.
 Gortia bra ns, 246.
 Grasses, homoptera injurious to, 229.
 Graves, Lafayette, 31.
 Green, G. C., on habits of jackdaws, 229.
 Greenland, relief expedition to, 44.
 Growoll's Bookseller's Library, 11.

INDEX TO VOLUME XIX.

A

Aaron, Eugene Murray, on museums, 77.
 Abbott's The Evolution of Christianity, 333.
 Academy, National, of Sciences, 348; New Members of, 348.
 Accidents in Germany, 117.
 Actinism, 142.
 Adams, J. C., death of, 78.
 Agriculture, status of experimental, 270.
 Aitry, Sir G. B., 64.
 Alaska, native fairs in, 387.
 Aldrich, J. M., on the diptera, 344.
 Algol, system of, 298.
 Allen, Harrison, on teaching anatomy, 86.
 Alphabet, origin of the, 35.
 Altenburg Oriental Society, 300.
 Aluminum, production of, 384; soldering of, 74.
 Amenhotep, tomb of King, 312.
 Amulets from the East, 173.
 Anatomical nomenclature, 341.
 Anatomy teaching, 85.
 Anemographs, 326.
 Anemometer comparisons, 27.
 Annalen der Physik und Chemie, 177.
 Antarctic expedition, 3.
 Anthropology, 165; application of psychological research to, 3; notes on, 146; of Europe, 49.
 Anthropometric scheme, 302.
 Ant-nest beetles, 117.
 Archeology at University of Pennsylvania, 136.
 Architectural studies in Brooklyn, 254; scholarship for Philadelphia, 309.
 Argentine Republic, F. J. Matthew's journey in, 354.
 Armstrong and Norton's Laboratory Manual of Chemistry, 181.
 Arsenic in common life, 8; poisoning from fabrics, 364.
 Art-Motives, identity of primitive, 298.
 Artesian wells in the Sahara, 337; in Iowa, 310.
 Appalachian Mountain Club exploration, 397.
 Appleton's General Guide, 363.
 Ashmead, Albert S., on immunity from disease, 342.
 Asia Minor, pre-historic ethnology of, 386.
 Asa, origin of, 73.
 Astronomical handbook, 110; lectures, popular, 103.
 Astronomy and Astro-Physics for May, 275.
 Atlantic Monthly, 12.
 Atmosphere, circulation of the, 301.
 Auchincloss, W. S., on yearly tides, 242.
 Aurora, periodicity of the, 350.
 Australia, Koebele's second trip to, 80; exploration in, 75.
 Austenleth's Homeric Dictionary, 47.

B

Bacteria in drinking water, 128; some uses of, 258.
 Baldwin, J. Mark, on infant's movements, 15; on psychological laboratory at Toronto, 143.
 Balloon problem, 136.
 Bamboo products, 354.
 Barbour, R. H., on gigantic fossils, 99; on pocket gopher, 354.
 Barnes, C. E., on botany in high schools, 91.
 Bartholomew's Graphic Atlas, 96, 236.
 Battersby, secondary, 324.
 Baur, G., on Galapagos Islands, 38, 166; on fauna of Galapagos Islands, 176.
 Bayley, C. C., on a fire-ball, 240.
 Beal, W. J., on making an herbarium, 123.
 Beale, A. H., on magnetic cane, 123.
 Beauchamp, W. M., on Indian occupation of New York, 78.
 Becher, F. A., on business and college education, 377.
 Bent, J. Theodore, on Zimbabwe, 348.
 Bereman, T. A., on circulation of the atmosphere, 32.
 Bibliotheca Electrotechnica, 333.
 Bigelow, R. P., 5.
 Birds, extinct, in New Zealand, 163.
 Blackberry seedling, 94.
 Blair's Organic Analysis of Potable Waters, 177.
 Blood, haemoglobin in, 13.
 Blowholes, 35; detection of, 75.
 Bosa, F., on Chinook jargon, 129; on growth of children, 356; 281.
 Bolland's Iron Founder, 39.
 Bolley, H. F., on experimental agriculture, 270.
 Bologna, University of, 2.
 Bone, human hyoid, 60.
 Bonvalot's Across Tibet, 91.
 Books, forthcoming scientific, 192.
 Bostwick, Arthur E., on estimates of distance, 118.
 Botanical laboratory, 183; nomenclature and congress, 364.
 Botany in high schools, 91; section of A. A. A. S., 81.
 Bowler in Tibet, 284.
 Bradley, Milton, on color, 175.
 Brain, the avian, 16.
 Brazilian tribes, 331.
 Bread-raising, 60.
 Brinton, O. G., anthropological notes, 146, 174, 202, 230, 255, 286, 316, 342; on the Celts, 191, 235; on European origin of white race, 360; on Hongtote language, 377.

British Museum Psychological Memoirs, 179; New Guinea, Sir Wm. Macgregor's journey in, 358.
 Brockway's Essentials of Physics, 177.
 Brooklyn Institute, 33; and political science, 292.
 Brooks, W. K., on Johns Hopkins marine laboratory, 10.
 Browning Cyclopaedia, 11.
 Buckley's Moral Teachings of Science, 67.
 Buddhism in the Occident, 316.
 Bulfinch's Age of Fable, 361.
 Bullet, modern, waste from, 341.
 Butler's The Place of Comenius in the History of Education, 361.
 Bythoscopidae, local, 318.

C

Call, R. Ellsworth, on artesian wells in Iowa, 310; on human hyoid bone, 60.
 Campbell's The Puritan in Holland, England, and America, 332.
 Canada, Royal Society of, 307, 337.
 Carlyle lectures, 25.
 Carus's Hordale of Science, 11, 39.
 Cartwright's Literary Reader, 275.
 Cats, singular, 173.
 Cells, the question of the, 146, 174, 191, 207, 235.
 Chaffanjon, on Venezuela, 171.
 Chalcotherium, ancestry of, 276.
 Chamberlain, A. F., on Naniobosha, 19.
 Chamberlain's Cyclopaedia—IX., 293.
 Chandler, C. P., on arsenic, 8.
 Chandler, B., on rain-making, 66.
 Charencey, H. de, on a native Maya historian, 337.
 Chateller, A., on Mahgreb, 342.
 Children, growth of, 256, 281.
 Chinook jargon, 129.
 Churchill's Men, Mines, and Animals of South Africa, 379.
 Clarke, A. M., on Algol, 298.
 Climate of British Isles, 362; of Egypt, 4.
 Climatic changes, 359.
 Coal in Argentine Republic, 103; in Straits of Magellan, 74; resources of Belgium, 145.
 Coffee-berry carbohydrates, 349.
 C. See-See, 173.
 Colbert's Humanity in its Origin, 180.
 Cold waves, 34; warnings in New York, 74.
 Collignon, R., on international anthropometric scheme, 202.
 Color question, 175, 264.
 Columbia College School of Pure Science, 61.
 Composition of human body, 100.
 Comet, a, 189; 275; Denning, 171, 229, 246; Swift, 145, 229, 246, 317; Winnecke's, 9, 78, 171, 246, 275, 317; Wolfe, 9, 78.
 Commerce, evolution of, 216; prehistoric, between Africa and Asia, 175.
 Comstock, J. H., on wire-worms, 18.
 Comstock, T. H., on veno-formation, 214.
 Congress of archeology and zoology at Moscow, 159; botanical, 341, 346; of experimental psychology, 44; geographical, at Geneva, 313; geographical, in Spain, 239; orientalist, 355.
 Conn, H. W., on uses of bacteria, 358.
 Conway, W. M., on the dawn of art in the ancient world, 344.
 Korean paper, 337.
 Corn-plant, chemical composition of, 211; planting, 355.
 Cornell, naval architecture at, 116; the change at, 300.
 Coulter, J. M., on botanical congress and nomenclature, 340.
 Cows, feeding grain to, 190.
 Cragin, F. W., 118; on saber-toothed tiger, 17.
 Cremation, 131; in Japan, 2.
 Criminal anthropology, 255; of women, 316.
 Crosby and Bell's Electric Railway, 96.
 Crouter, A. L. E., on higher education of the deaf, 199.
 Culture, retrogressive, in prehistoric times, 174.
 Currents of the Pacific, 102.

D

Dana, J. C., on family types, 264.
 Dana, J. D., 263, 271.
 Daresse, on artificial production of monsters, 202.
 Davis, W. M., 271, on Loup Rivera, 107, 230.
 Deaf, association for teaching speech to the, 173; higher education of the, 199, 231.
 Dehl and Chamberlain's Norman Monuments in Palermo, 35.
 Deserts of North America, 158.
 Diamond, large, 73.
 Diamonds, hardness of cut, 331.
 Dietrich, Dr. F. C., death of, 2.
 Dimmock, George, on electricity in agriculture, 109.
 Diphtheria propagated by steam, 229; tox-albumin, 198.
 Diptera, systematic position of the, 344, 339.
 Diseases, cure of, 60; immunity from, 342.
 Distance, estimates of, 118, 149.
 Donnelly's Cipher in the Flays, 11.
 Dorsey, J. Owen, on Naniobosha, 19; on Siouan onomatopoeies, 4; on Dhegaha language, 356.
 Dorsey's The Dhegaha Language, 392.

Drummond, A. T., on lake temperatures, 47.
 Drummond's Natural Law in the Spiritual World, 177.
 Dust, microbes in, 102; in the air, 242.
 Dymond, T. S., on lettuce, 301.

E

Earthquakes in Japan, 187.
 Easter Island native language, 356.
 Education, relation of business to college, 297.
 Edwards, Amelia B., death of, 271.
 Edwards, C. S., 75.
 Edwards, Henry, entomological collection of, 150.
 Edwards, Henry, publications, 82.
 Ehrenreich, P., on Brazilian tribes, 231.
 Ehrenreich's Volkshunde Brasiliens, 63.
 Eise, berg's Bacteriological Diagnosta, 291.
 Electrical engineer, the education of the, 344.
 Electricity in agriculture, 25, 100.
 Clement, a new, 339.
 Embryonic causes of variation, 202.
 Endlich's Blowpipe Analysis, 352.
 Enrich, H., on Technical Academy of Sciences, 258.
 Epidemics, atmospheric theory of, 141.
 Epileptic automatism, 45.
 Ektino throwing-sticks, 332.
 Eschmarch, G. von, 5.
 Ethnology, 342.
 Evaporation and condensation, 101.
 Eschmarch, Jr., on Technical Academy of Sciences, 258.
 Ewell, Edwin E., on coffee-berry carbohydrates, 349.
 Exhibition building, New York, 109; Columbian, in Spain, 229; Historical American, in Madrid, 37; religious, 101; of objects used in worship, 215, 235; South African, 354.
 Eye-habits, 53.
 Eyes, the, and facial expression, 253.

F

Falling, sensations during, 284.
 Family traits, 1, 5, 221, 319; types, 264.
 Famine in Russia, 131.
 Farrington, E. H., on corn-plant, 211.
 Farrow, J. H., on architectural scholarship, 309; on Brooklyn architectural exhibition, 354; on historical American exhibition in Madrid, 37.
 Ferrero, G., on criminal anthropology of woman, 316.
 Fertilizer, experiments at Georgia station, 101.
 Field, Geo. W., 172.
 Findlay's Working of an English Railway, 178.
 Fire-ball, 249.
 Fishes, distribution of, 187; Dr. Storer's work on, 295.
 Fluke's Discovery of America, 130; Evolution in Science, Philosophy, and Art, 60; History of the United States, 208.
 Fitner, H., on lotos eaters, 220.
 Fittner, S., on tox-albumin diphtheria, 193.
 Floridus, 3.
 Flower's The Horse, 63.
 Fog, Frank's explanation of, 61; in London, 4.
 Food exhibition, 74.
 Forbes, Henry O., on extinct birds of New Zealand, 163.
 Forbes, P. Max, on the Celts, 175.
 Fossils, gigantic, 99.
 Fothergill's The Will Power, 179.
 Foxes in Australia, 313.
 Fruit-trees, is it dangerous to spray, 275.
 Fungi on plants, 172, 243.

G

Gabelentz's Sprachwissenschaft, 96.
 Galapagos Islands, 38, 166; fauna of, 176.
 Gallaudet, E. M., on the higher education of the deaf, 231.
 Games, children's, 11.
 German, S., on distribution of fishes, 187; on Siistrus and Crotalophorus, 200; on Dr. Storer's work on fishes, 295; on vesicles of Savi, 123.
 Gatschet, A. S., on Klamath language, 256.
 Geer, de, Gerard, 271.
 Gelkie, A., on volcanic action, 145.
 Gems, detection of artificial, 244, 276; of the Ural, 101.
 Genealogy, scientific, 157, 230.
 Geneva, soundings in lake of, 46.
 Geographical names, orthography of, 34; society in Liverpool, 32.
 Geological Survey of Alabama, 38.
 German Science Association, 338.
 Glacial man, 317; period, Professor Gelkie on, 107; period, 103; phenomena in New York, 341.
 Glaeser, E., on the alphabet, 255.
 Glass, solubility of, 32.
 Gold in meteorite, 61.
 Golden, Katherine, E., on a botanical laboratory, 183.
 Gopher, pocket, extermination of, 304.
 Gorbis geological collection, 2.
 Gortia bra ns, 246.
 Grasses, homoptera injurious to, 229.
 Graves, Lafayette, 31.
 Green, G. C., on habits of jackdaws, 229.
 Greenland, relief expedition to, 44.
 Growell's Bookseller's Library, 11.

H

- Hainan, 78.
Hale, E. M., on aboriginal tea, 51.
Hale, George, on arsenic poison, 104.
Hale, Horatio, on Klamath Nation, 6, 20, 29.
Hall, T. Proctor, on direct reflecting polariscopes, 323; on four-fold space, 272; on Lissajous's curves, 213.
Halsted, Byron D., on botany section of A. A. A. S., 81; on parasitic fungi, 172, 243; on weeds, 116.
Halsted, G. B., on four-fold space, 319.
Hamy, E. T., on lotos-eaters, 280.
Hanging, death by, 173.
Hardy, A. S., 3, 3.
Harger's Exterior of the Horse, 54.
Harrises, H., on influenza epidemics, 144.
Harrison, Mrs. John, amulet collection of, 172.
Hart's Epoch Maps, 54.
Harvard requirements for admission, 279.
Haworth, Erasmus, on prismatic sandstone, 34.
Hay, O. P., on *Storeria varia*, 199.
Haynes, H. W., on the Celts, 207.
Hazen, H. A., on a problem in physics, 106; on work in gaseous compression, 150.
Healing, divine, 43.
Health congress at Chicago, 17; eighth annual conference of State boards of, 285; resorts, meteorological observations at, 214; statistics in Mich., 2.
Hein, A. R., on primitive art-motives, 286.
Heisen Keller, 291.
Heilmann, G., on rain-gauges, 242.
Hemipterous mouth, 189.
Henshaw, M., on lightning, 249.
Herbarium-making, 123.
Hewitt, J. N. B., on Iroquoian etymology, 19.
Hicks, L. E., on Loup Rivers, 29, 137, 288; on storage of storm-waters, 183.
Hill, E. J., on eye-habits, 53.
Hill, Geo. A., astronomical notes, 246, 275, 317; on Sir G. B. Airy, 64; on new star in Auriga, 160.
Hira, G. A. S., on memorial, 116.
Hitchcock, Romyon, on spectrum photography, 118; on star photography, 239.
Hockley, Thomas, death of, 188.
Hodges, N. D. C., on protection from lightning, 197, 229.
Hofmann, August Wilhelm, 314.
Hofmann, E. L., on preparation for study of medicine, 282.
Homoptera injurious to grasses, 228.
Homote language, 277.
Hopkins, T., gift for seaside laboratory, 243.
Horner, L., on Alaskan fairs, 287.
Horsford's The Landfall of Loff Erikson, 67.
Horton's silver in Europe, 229.
Hotchkiss, Jed., on aboriginal tea, 137, 166; on trees of West Virginia, 161.
Houston's Dictionary of Electricity, 333.
Howe, J. L., on science teaching, 233.
Howe, Minnie, on bread-raising, 60.
Hubbard, Gardiner G., on the evolution of commerce, 216.
Hughes, D. E., on oil as insulator, 201.
Huidkoper's Age of Domestic Animals, 178.
Hunt, T. F., 5.
Hussey, W. J., 274.
Huxley's Gadarene Swine, 36.
Hypnotism among animals, 95; traumatic, 23, 66.

I

- Iapetus, 78.
India, ethnography of, 236.
India rubber, as ion of metals on, 143.
Indian occupation of New York, 76.
Indiana Academy of Science, 45.
Infants' movements, 15.
Infection and the atmosphere, 26.
Influenza, 74; bacillus, 100, 122, 193; germs, 90; in Vienna, 117; origin of, 144.
Insectivorous plants, 3.
Insects held in dread, 337.
Inventors, American association of, 57.
Iowa Academy of Science, 21.
Irish Naturalist, 177.
Iroquoian etymology, 190.
Irrigation of great plains, 183.
Ives, J. E., on collecting gorilla brains, 240.

J

- Jackdaws, curious habits of, 229.
Jackson, Donald C., on the education of the electrical engineer, 344.
Jahrbuch der Chemie, 187.
James Joseph, F., on plant diseases, 113.
Jargons, study of, 230.
Jasidim, local, 257.
Johns Hopkins Academic hall, 100; alumni association, 172; graduates; graduates' association, 9.
Johnson, Roger B., on the will, 61.

K

- Kansas University Science Club, 313.
Kant's Kritik, 23.
Kear's Norway and the Norwegians, 333.
Kellerman, Mrs. W. A., on alanthus leaflets, 90; on catnip leaves, 66; on seedling blackberry, 94; on the special 1, 161.
Kellicott, D. S., on barn owl, 123.
Kellogg, D. S., on glacial phenomena, 341.
Kemppe, H., on Australian languages, 60.
Klamath, eruption of, 157.
Klamath language, 256; nation, 6, 20, 29.
Klein's Star Atlas, 152.
Kopp Hermann, death of, 159.
Krag, W. H., on floridite, 3; on sugar reactions, 117.
Kulturformen, E. Hahn on, 150.
Kunk, George F., on artificial gems, 256; on gems of Ural Mountains, 101.

L

- Laboratory, the Marine Biological, 227; biological, Brooklyn, 223; chemical, at Case School, 207; Johns Hopkins Marine, 10; sea-side, for Leland Stanford, Jun., University, 229, 243; training, 261.
Lakes, great, origin of, 312; temperature of, 47.
Languages, aboriginal, of Australia, 60; artificial, 31.
Latham, Baldwin, on evaporation, 101.
Lauer's Church and State in New England, 81.
Leaflets, alanthus, 90.
Leaves, curious catnip, 66.
Le Chatelier, on melting points of metals, 201.
Length, standard of, in light-waves, 43.
Lemmer, K., on jargons, 230.
Lettuce in medicine, 201.
Lewis, H. Carvill, on glacial phenomena, 205.
Library, Spicer, 61.
Light, aluminum, 215.
Lighting, 66, 249; protection from, 197, 229.
Littner, J. A., on pear-tree *Paylia*, 343.
Lisajous curves, 213.
Liverdage, on iron rust, 271.
Locomotive, first, 80; first in America, 37.
Locusts in Egypt, 32.
Loeb, Morris, on A. W. von Hofmann, 314.
Longman's New School Atlas, 151.
Loper, S. Ward, 61.
Lotos-eaters and the Troglodytes, 239.
Lowe, E. J., on rain-drops, 288.
Lump of salt and a glass of water, 71.

M

- Mabery, C. F., on chemical laboratory of Case School, 207; on laboratory training, 331.
McCarthy, G., on French wines, 188.
MacDonald, A., on influenza bacillus, 95, 100, 122; on psychological training, 163; on traumatic hypnosis, 94.
Macloskie, G., on the trachea of insects, 65.
Maclean's People of the United States, 47.
Macour, James M., investigation of fur seal, 27.
Magnetic cane, 123; storm of Feb. 13-14, 144.
Magnets, influence of steam on, 103.
Mahgreb, palm-ethnology of, 342.
Man, glacial, 1, 317.
Manganite, a new alloy, 83.
Markham's Sir John Franklin, 62.
Marshall, D. T., on deblooming oils, 245; on pyrite incrustation, 151.
Mason, O. T., on anthropology, 165; on throwing-sticks, 332.
Maspero's Life in Ancient Egypt and Assyria, 55.
Masrium, 3, 9.
Maxwell's Theory of Heat, 178.
Maya codices, 256; historical, a native, 230.
Maycock's First-book of Electricity, 178.
Medical Association, British, 334.
Medicine, preparation for the study of, 232.
Mediterranean, explorations in, 215; prehistoric commerce on, 342.
Mebury Medical School, 151.
Membracids, local, 337.
Men, height of, in Europe, 3.
Merenky, on ancient India, 175.
Metals at high temperatures, 119; new method of reduction, 75.
Meteorological observations at health resorts, 214.
Michelson's metrical standard in terms of wave-lengths of light, 45.
Middleton's Remains of Ancient Rome, 179.
Midway, 45.
Migrations, prehistoric European, 174.
Milk, machine for churning fresh, 331.
Milky way, photographs of, 9.
Miller, W. G., on gems, 244.
Miller's Little Brothers of the Air, 215.
Milpaugh, C. F., on weeds as fertilizing material, 354.
Mile's Dog in Health and in Disease, 47.
Mine and Burton's The Great Earthquake in Japan, 1891, 221.
Minerals in State of Washington, 53.
Missouri geological survey, 236.
Mistake, influence of, 159.
Monck, W. H. S., on motions of stars, 343.
Monkeys, affection of, 117; games, 59.
Moon, bright streaks on, 375.
Moorehead's, W. K., explorations in Ohio, 68.
Morgan, T. H., 5.
Mossman, R. C., on silver thaw, 131.
Motion and heat, 132, 147.
Mound-builder relics, 68.
Müller, S., on prehistoric European migrations, 174.
Müller's India, 361.
Munro's Heroes of the Telegraph, 178.
Munroe's Index to Explosives, 278.
Museum Hand books, 179; of natural history at So. Kensington, 19.
Museums, support of, 77.

N

- Namiboshu, 19.
Naples station, American table at, 130.
Nasal index, 202.
Nassau, R. H., on collecting gorilla brains, 240.
Natives of South America, 146.
Natural Science, 178.
Naval architecture at Cornell, 116.
Nebraska Academy of Sciences, 59.
Neumann's Parasites of Domesticated Animals, 332.
Neurasthenia, Dr. Cowies on, 13.
New Jersey, pleistocene formations of, 235.
Newcomb, Simon, 100.
Newell's Flower and Fruit, 40.
Nichols, C. F., on divine healing, 43.
Nile, source of, 5.

- Nissen's Swedish System of Educational Gymnastics, 154.
Numismatic association, Brooklyn, 8.
Nuttall, G. H. F., on influenza bacillus, 193.

O

- Ohio Academy of Science, 248.
Oil as insulator, 201; deblooming mineral, 245.
Olivier, J. E., on estimates of distance, 149.
Onomatopoeia, Siouan, 4.
Orange-ulu, 104.
Order in the Physical World, 177.
Oriental Club, Phila., 123.
Osborn, Henry P., on Chalchotherium, 276; on scientific alliance, 178.
Osborn, Herbert, on homoptera injurious to grasses, 228.
O'Shaane's Electricity Simplified, 178.
Osteological notes, 233.
Owl, barn, in Ohio, 123.
Oxygen, magnetic, 2.

P

- Palenque tablet, 228.
Pamirs, journey in, 120.
Pammel, L. H., on wind-storms and trees, 205.
Paper manufacture in Corea, 237.
Parsons's French Schools, 243.
Patent office, a new, 211; building, 183.
Patents, foreign, 241, 348.
Pauperism, 172.
Pearson's Grammar of Science, 179.
Pear-tree *Paylia*, 343.
Peat bogs swell and burst, 157.
Peck, W. G., death of, 102.
Peirce, C. S., 17.
Petrie's discoveries in Tel-el-Amarna, 246.
Phillips's Abroad and at Home, 292.
Philosophical Review, 25; Society, Philadelphia, seventeenth-century, 326.
Photograph for deaf-mutes, 2.
Photography, anniversary of introduction of gelatin-bromide process in, 103; star, 332.
Phosphate rocks of Florida, 2.
Physsa heterostrophia Say, 331.
Physical and mental correlation, 217.
Physics, a question in, 195; problem in, 106.
Planet 313, 9.
Planets, new, 171.
Plant diseases, work on, by Department of Agriculture, 113.
Plympton's How to Become an Engineer, 12.
Pneumonia, blood serum as cure for, 69.
Poison, snake, 291.
Poisoned arrows, 145.
Polariscopes, direct reflecting, 323.
Political science at Brooklyn Institute, 281.
Poteat, W. L., on *Physsa heterostrophia* Say, 333.
Powers, E., on rain-making, 52.
Preble, Jan., W. P., on four-fold space, 304.
Preserving meat ten years, 101.
Prize, Alvarenga, 46; of Boston Society of Natural History, 271; in physics, 173; to Agricultural Department, 213.
Psychical Research Society, 61.
Psychological laboratories, 129; laboratory at Columbia, 172; laboratory at Toronto, 143; research applied in anthropology, 205; training, 127; training, need of physiology and anatomy in, 168.
Psychol. 27, American Journal of, 277.
Paylia, pear-tree, 343.
Puma, the, 169.
Pyrite incrustations, 151.

Q

- Quatrefages, M. de, death of, 83.

R

- Railway, African, 354.
Rain convention, 6.
Rain-drops, 336.
Rainfall of Jamaica, 102; records, 242; in Russia, 61.
Rain-making, 52; by faith, 66.
Ramesses II., statue of, 130.
Rand's Economic History, 173.
Rankin, A., on dust in the atmosphere, 242.
Reclus, Elisée, 207.
Record of Scientific Progress, 153.
Redgrave, G. R., on flexible tubing, 206.
Régamey's Japon Pratique, 41.
Reid's Peeps into China, 361.
Religions, ancient, 130; early, 153.
Religious exhibition, 101; symbolism, 149.
Remondino's The Mediterranean Shores of America, 179.
Remsen, Ira, 159.
Remsen's Recollections, 55.
Retina, neuro-epithelioma of the, 93.
Review of Reviews, 194.
Richard, Edgar, 47.
Risley, H. H., on value of nasal index, 202.
River pirate, 7.
Rivers, evolution of Loup, 59, 107, 137, 145, 223, 228.
Rogers, Wm. A., on hardness of cut diamonds, 251.
Romanes's Darwin and After Darwin, 179.
Rowe's Instruction in French Universities, 179.
Ruffner, W. H., on Minerals in Washington, 53.
Russell, R., on the untenability of atmospheric theory of epidemics, 144.
Rust, iron, 271.

S

- Sahara, artesian wells in the, 227.
Sallsbury, R. D., on pleistocene formations of New Jersey, 235.
Salmon industry, 74.
Salt-peter in Kilima Njaro district, 151.

- Samokrasoff's Chronological Classification of Antiquities, 286.
 Sandstone, prismatic, 84.
 Sanford, E. C., on four-fold space, 332.
 Sanford's Laboratory Course in Psychology, 187.
 Saunders's Discovery of the New World, 365.
 Schaffhausen, on the Celts, 146.
 Schmidt, Emil, on anthropological methods, 266.
 School and College, 38.
 Schweinfurth, G., on commerce of ancient Egypt, 175.
 Scientific Alliance of New York, 141, 176.
 Scorpius, 18.
 Scott, R. H., on Atlantic weather, 900.
 Scripture, E. W., 131, 313; on psychological training, 127; on skin temperatures, 258.
 Seal habits of fur, 271.
 Sericulture in Asia Minor, 79.
 Ship's rolling of, 247.
 Shufeldt, R. W., on zoology in Washington schools, 207.
 Shufeldt, R. W., 32.
 Sideral Messengers, 78.
 Signalling at night, 37.
 Silver in Argentine Republic, 108; memoir on, by Siles, 21.
 Sinslerland, M. V., on wire-worms, 18.
 S. nunt's The Rationale of Mesmerism, 152.
 Sistrurus and Crotalophorus, 290.
 Skin, temperature of, 258.
 Skull, evolution of human, 146.
 Slade, D. D., osteological notes, 203.
 Smith, John B., on Hemipterous mouth, 189.
 Snake poison, 284.
 Snyder, M. B., university extension, 1.
 Southwick, E. H., on local Jasside, 287; on local Bythoscopidae and Ceroptidae, 318; on local Membracidae and Fulgoridae, 257.
 Sowerby, Wm., on coffee-ten, 173.
 Space, four-fold, 272, 304, 319, 321, 3-2.
 Spear's Leaves and Flowers, 334.
 Specialist, the, 161.
 Species, variation in, 316.
 Spectrum photography, 118.
 Spencer, J. W., on Great Lakes, 312.
 Spencer's Roll Turning, 109.
 Spencer's Social Statics, 138.
 Spitzbergen, 128.
 Stars, new, in Auriga, 160, 229.
 Stars, proper motions of, 343.
 Stee, death of, 6; on silver, 301.
 Statist-al congress, 74.
 Steamship routes, 18.
 Stee, effects of surface scratches on, 327.
 Stevens, G. T., on facial expression, 253.
 Stevenson, Mrs. C., on ancient forms of religious symbolism, 129; on Egyptian religions, 130; on tomb of King Amenhotep, 212; on discoveries in Tel-el-marra, 246.
 Stiles, C. W., 159.
 Stone, G. H., on rain-making, 52.
 Stones, H., on retrogressive culture in prehistoric times, 174.
 Storeria victa, 199.
 Sugar beets, 200; reactions with acetone, 117, school, 324.
 Suicide in European armies, 2.
 Suller's The Human Mind, 47.
 Sumatra, survey of, 3-7.
 Sunflower industry, 205.
 Sun's parallax, 9.
 Sunshine recorders, 354.
 Swagger, decline of, 115.
 Sybel's German Empire, 11.
 T
 Taber, C. A. M., on climatic changes, 359; on glacial period, 118.
 Tea, aboriginal American, 51, 137, 166; brick, 358; death from, 101.
 Teaching of science, 2-3.
 Tel-el-Amarna, discoveries in, 246.
 Temperature, sensations of, 89; of air, snow, and earth, 89; of melting steel, 201.
 Texas Academy of Science, 60, 358.
 Thaw, silver, 131.
 Tibet, explorations in, 284.
 Thomas, Cyrus, on a key to the mystery of the Maya codices, 293; on the Palenque tablet, 328.
 Thompson, E. P., on foreign patents, 311, 348.
 Thomson, W. J., on language of Easter Island, 236.
 Thorne, C. E., on wheat in Ohio, 48.
 Throwing-sticks, 332.
 Thunder-storms, 4.
 Thurston's Steam-engine, Part II., 167.
 Tides at Kiangchow, 335; yearly, 242.
 Tierra del Fuego, 172, 234.
 Tiger, sabre-toothed, 17.
 Time-service of Harvard observatory, 87.
 Todd, J. E., on Loup Rivers, 148.
 Topinard, P., on human skull, 146.
 Topinard's latest work, 280.
 Tortoise, food for, 95.
 Townsend, C. H. Tyler, on the Diptera, 320; on insects held in dread, 337.
 Trachea of insects, 65.
 Trees of West Virginia, 161; wind-storms and, 205.
 Treves's Physical Education, 215.
 Trimble's The Tannins, 181.
 Troy, D. S., on motion and heat, 122, 147.
 True, F. W., on the puma, 169.
 Tubing, flexible, 205.
 Turner, C. H., on the avian brain, 16.
 Tuscaloosa formation, 274.
 Tyndall's New Fragments, 69.
 U
 Unconsciousness, explanations of, 284.
 University extension, 1; proceedings, 333; of Dublin tercentenary, 200.
 V
 Vaccination in India, 243.
 Variation in species, 316; in types, 277; artificial production of, 226; in vertebrates, 292.
 Veeder, M. A., on the aurora, 250.
 Vela formation, 214.
 Venezuela and Colombia, 171.
 Vesicles of Savi, 128.
 Vesuvius, eruptions of, 9.
 Victoria Nyanza, 330.
 Volcanic action in England, 145.
 W
 Wahnachaffe's Examination of Soils, 178.
 Wake, C. Staunland, on actinism, 143; on color, 264; on four-fold space, 331.
 Wallace's Island Life, 236.
 Ward, R. deC., on a river pirate, 7.
 Ward, Stanley H., on first locomotive, 80.
 Warner, R. B., on a lump of salt and a glass of water, 71.
 Water, bacteria in, 128; discoloration of, 82.
 Wave, height of, 69.
 Weather of Paris, 34; of the Atlantic and of Great Britain, 300.
 Weeds, 116; as fertilizing material, 336; at Chicago Exposition, 159.
 Weismann's Heredity, 261.
 Welch, Wm. H., on toxalbumin dioptheria, 199.
 West, G. M., on variation in type, 336.
 Whaling in the Antarctic, 355.
 Wheat in Ohio, 48; rust, 271.
 Whipple, G. M., on anemographs, 326.
 White race, origin of, 361.
 White's Number Lessons, 13.
 Whitman, C. O., on variation in types, 277.
 Whympere's Great Andes, 176.
 Wiley, H. W., on floridite, 3; on midzu-ame, 45.
 Will, analysis of, 62.
 Williams, C. T., on meteorological observations at health resorts, 214.
 Williams, E. H., Jun., on family traits, 230.
 Wind-storms and trees, 205.
 Wines of Medoc, 74; sophisticated French, 185.
 Wire-worms, 18.
 Woelfel, A., on Russian famine, 131.
 Woman, criminal anthropology of, 316.
 Work and its relation to gaseous compression, 150.
 Wright, G. F., on H. Carvill Lewis's work on glacial phenomena, 336.
 Wright, J. McN., on food for tortoise, 95; on hypnotism among animals, 95; on traumatic hypnotism, 66.
 Y
 Yale Review, 330.
 Yellow-fever, cold treatment of, 131.
 Youngusband's, Capt. F. E., journeys in the Pamirs, 120.
 Z
 Zeitschrift für anorganische Chemie, 172.
 Zimbabwe ruins, 144, 343.
 Zoology in Washington schools, 207.

